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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-16-26 Date: 03/09/2021

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 09-08-21

Customer ID : RCC (For Car)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	03/09/2021	150.52 X 150.40 X 151.46	22639	8.874	538.4	23.8	23.2
2	RCC	M20	06/08/2021	03/09/2021	151.18 X 150.30 X 150.68	22722	8.628	514.2	22.6	
3	RCC	M20	06/08/2021	03/09/2021	150.52 X 151.97 X 151.99	22874	8.716	532.3	23.3	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2021

Lab ID	:	**CP-2021-09-16-26**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	09-08-21
Customer ID	:	RCC (For Tractor)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	13/08/2021	150.39 X 150.90 X 150.19	22694	**8.531**	430.6	19.0	18.7
2	RCC	M20	06/08/2021	13/08/2021	151.05 X 150.60 X 151.99	22748	**8.990**	429.4	18.9	
3	RCC	M20	06/08/2021	13/08/2021	150.28 X 151.83 X 149.72	22817	**8.456**	419.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-16-26** **Date: 03/09/2021**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 09-08-21

Customer ID : RCC (For Tractor)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	03/09/2021	149.75 X 151.17 X 150.36	22638	**8.874**	523.8	23.1	22.9
2	RCC	M20	06/08/2021	03/09/2021	151.83 X 149.44 X 149.14	22690	**8.628**	500.0	22.0	
3	RCC	M20	06/08/2021	03/09/2021	151.18 X 151.71 X 150.77	22936	**8.716**	538.0	23.5	

• The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2021

Lab ID	:	CP-2021-09-16-26
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	09-08-21
Customer ID	:	RCC (For Make in India)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	13/08/2021	149.73 X 150.07 X 150.35	22469	**8.531**	413.7	18.4	18.2
2	RCC	M20	06/08/2021	13/08/2021	149.42 X 151.73 X 149.12	22672	**8.990**	412.8	18.2	
3	RCC	M20	06/08/2021	13/08/2021	151.42 X 150.13 X 149.08	22732	**8.456**	409.4	18.0	

* The results obtained are satisfactory as per standard requirements.

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Project Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/09/2021

Lab ID	:	**CP-2021-09-16-26**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	09-08-21
Customer ID	:	RCC (For Make in India)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/08/2021	03/09/2021	149.95 X 150.20 X 149.86	22522	8.874	534.3	23.7	23.3
2	RCC	M20	06/08/2021	03/09/2021	149.21 X 151.11 X 149.39	22548	8.628	509.6	22.6	
3	RCC	M20	06/08/2021	03/09/2021	150.00 X 149.43 X 151.70	22414	8.716	529.4	23.6	

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE FLOORING TILES

Date: 27-07-21

Lab ID : CP-2021-09-16-26
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer Reference : EE(Project)/Ynk Zone/WO/09/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 22-07-21
Sample Type : Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes : IS 1237:2012
Date of test : 22-07-21

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	1.920		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

Date: 13-08-21

Lab ID	:	**CP-2021-09-16-26**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	09-08-21
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-08-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2021-09-16-26

Date: 13-08-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Date: 13-08-21

Lab ID	:	CP-2021-09-16-26
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	09-08-21
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-08-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-09-16-28 Date: 13-08-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	-
2	Specific Gravity	2.56	-
3	Material finer than 75 micron(%)	8.5	Unerushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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